

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (canceled)

Claim 2. (currently amended) The composite tubular prosthesis according to claim ~~222~~6,
wherein said first tubular ~~body-form~~ is an inner tubular body and said second tubular form is an
outer tubular body of said prosthesis.

Claim 3. (currently amended) The composite tubular prosthesis according to claim ~~222~~6,
wherein said first tubular ~~body-form~~ is an outer tubular body and said second tubular form is an
inner tubular body of said prosthesis.

Claim 4. (currently amended) The composite tubular prosthesis according to claim ~~222~~6,
wherein the PTFE of said first tubular ~~body-form~~ is expanded PTFE.

Claim 5. (currently amended) The composite tubular prosthesis according to claim ~~222~~6,
wherein said deformable support structure is a stent.

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Claims 6-10 (canceled)

Claim 11. (currently amended) The composite ~~intraluminal~~-tubular prosthesis as in claim ~~2226~~, wherein the PTFE of said second tubular form is ePTFE.

Claim 12. (currently amended) The composite ~~intraluminal~~-tubular prosthesis according to claim ~~2226~~, wherein the deformable support structure is a wire stent with longitudinally adjacent waves being nested along the length of said first tubular body and peaks of said longitudinally nested waves are linearly aligned.

Claim 13. (currently amended) The composite ~~intraluminal~~-tubular prosthesis according to claim ~~2226~~, wherein the first tubular ~~body~~-form is secured to said second tubular form by thermal bonding.

Claim 14-22. (canceled)

Claim 23. (previously presented) An implantable composite tubular prosthesis comprising:

a first plurality of generally straight polytetrafluoroethylene strips, said first strips being arranged to define a first tubular form with said first strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween;

a second plurality of generally straight, separate and independent polytetrafluoroethylene strips said second strips being arranged to define a second tubular form with said second strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween; and

a circumferential deformable support structure interposed between said first tubular form and said second tubular form, wherein the strips of said first tubular form at least partially overlap the gaps of said second tubular form to secure the support structure.

Claim 24. (canceled)

Claim 25. (currently amended) A method of providing axial and circumferential compliance to an intraluminal prosthesis stent/graft composite comprising:

- a) providing a plurality of generally parallel, separate and independent polytetrafluoroethylene strips arranged to define a first tubular form, said strips being arranged in non-overlapping relationship to form gaps therebetween;
- b) positioning a deformable support structure over said first tubular form;

- c) positioning a second plurality of generally parallel, separate and independent polytetrafluoroethylene strips, said second strips being arranged in non-overlapping relationship to define a second tubular form having gaps between the second strips, wherein said second tubular form is positioned at least partially over the gaps of said first tubular form; and
- d) securing said second tubular form to said first tubular form to form said prosthesis.

Claim 26. (new) An implantable composite tubular prosthesis comprising:

a first plurality of generally straight polytetrafluoroethylene strips, said first strips being arranged to define a first tubular form with said first strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween;

a second plurality of coaxial non-continuous polytetrafluoroethylene segments being arranged to define a second tubular form with said segments being arranged longitudinally in non-overlapping relationship to create gaps therebetween; and

a circumferential deformable support structure interposed between said first tubular form and said second tubular form, wherein the strips of said first tubular form at least partially overlap the gaps of said second tubular form to secure the support structure.